

SYSTEMS, METHODS, AND COMPUTER PROGRAM PRODUCTS FOR
ACCELERATED DYNAMIC PROTECTION OF DATA

ABSTRACT OF THE INVENTION

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A system, method, and computer product that accelerates encryption and decryption of data while using both a static key and a dynamic key. The present invention eliminates intermediate decryption of data that is transmitted between computer systems. More particularly, encryption efficiency is improved by eliminating decryption of the statically encrypted data while incorporating the advantages of a dynamic key such as enabling rapid change of the dynamic key. The efficiency improvements reduce the computer resources required to protect the data and therefore stronger data encryption may be enabled with the saved computer resources. End-to-end security of the data is maintained without the need for trusted data servers.

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